**Measurement and Conversion Notes**

**I. US Customary Units (English Units)**

|  |  |
| --- | --- |
| **Length** |  |
| 1 foot (ft) = 12 inches (in) |  |
| 1 yard (yd) = 3 feet (ft) | **Volume** |
| 1 mile (mi) = 5280 feet (ft) | 1 cup (c) = 8 fluid ounces (fl oz) |
|  | 1 pint (pt) = 2 cups (c) |
| **Weight** | 1 quart (qt) = 2 pints (pt) = 32 (fl oz) |
| 1 pound (lb) = 16 ounces (oz) | 1 gallon (gal) = 4 quarts (qt) |
| 1 ton(T) = 2000 pounds (lb) | 1 tablespoon (tbsp.) = 3 teaspoons (tsp) |

1 ounce (oz) = 2 tablespoons (tbsp)

To convert one English unit to another English unit to another English unit, multiply by a ‘unit factor” from the formulas.

When two qualities are equal one can be placed over the other to form a fraction. This fraction is equal to one.

**Examples:**

Change each quantity to the indicated unit.

1.) 24 pt = \_\_\_\_\_\_\_\_\_qt.

Solution: Look for a “unit factor” that contains both pints and quarts.

1qt = 2pt

Multiply by the unit factor. Be sure to put the units you want to change from in the denominator.

24pt \*  Cross cancel pints and multiply.



2.) 8.5 gal = \_\_\_\_\_\_\_\_\_qt

3.) 88 oz = \_\_\_\_\_\_\_\_\_\_lb

4.) 13 yd = \_\_\_\_\_\_\_\_\_ft

5.) 12.5 gal = \_\_\_\_\_\_\_ pints

6) 4.5 yd=\_\_\_\_\_\_\_\_in

7) 64 cups =\_\_\_\_\_\_\_\_qt

8) Which weighs more, a  hamburger or a 5 oz hamburger?

9) Robin wants to make a large recipe of apple tart that calls for 12 cups of apples. If Robin has 7 pints of apples, does she have enough?

10.) 1 gallon = \_\_\_\_\_\_\_\_\_\_\_ teaspoons

11.) 2.5 quarts = \_\_\_\_\_\_\_\_\_\_ tablespoons

12.) .75 gallons = \_\_\_\_\_\_\_\_\_\_\_ cups

13.) 400 ounces = \_\_\_\_\_\_\_\_\_\_\_ pounds

14.) 40 tablespoons = \_\_\_\_\_\_\_\_\_\_ cups

15.) 6.25 tons = \_\_\_\_\_\_\_\_\_\_ pounds

16.) 6000 ounces = \_\_\_\_\_\_\_\_\_\_\_ gallons

17.) 50 quarts = \_\_\_\_\_\_\_\_\_\_\_ cups

18.) 21.5 pounds = \_\_\_\_\_\_\_\_\_\_ ounces

19.) 360 pints = \_\_\_\_\_\_\_\_\_\_ gallons

20.) 5600 tablespoons = \_\_\_\_\_\_\_\_\_\_\_ cups